Special Issue

Renin-Angiotensin System in Cardiovascular Biology

Message from the Guest Editors

The aim of this Special Issue is to present the latest updates on the role of the renin-angiotensin system (RAS) in cardiovascular biology, from cellular mechanisms to organ functions and novel therapeutic mechanisms. The RAS has an important role in the regulation of blood pressure and salt water homeostasis. Angiotensin II (AngII) is the main regulator. Therapies based on angiotensin-converting enzyme (ACE) inhibitors (ACEIs) and blockers of AT1 angiotensin receptors have been effectively used in the therapy of hypertension for decades. Other RAS pathways have more recently become the focus of research, including ACE2 and AT2 receptor signaling, as well as the conversion of AngII to Ang 1-7. Alternative activation of these pathways may also propose novel additional molecular mechanisms and beneficial therapeutic potential in cardiovascular pathology. This Special Issue therefore invites original research papers and review articles providing the latest insights into the complexity of the cell signaling and biological mechanisms of the RAS components to propose novel mechanisms in cardiovascular physiology and pathophysiology.

Guest Editors

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